

## OPTICAL RECORDING AND REPRODUCING DEVICE

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### Abstract of JP63306546

**PURPOSE:** To sharply increase the recording capacity of an information recording medium by arranging a condenser lens for forming a condensing point on a position conjugate with a recording layer in front of a detector and positioning a pin hole on the condensing point.

**CONSTITUTION:** The condenser lens 6 for forming its condensing point on a position conjugate with the recording layer 5b is arranged in front of the detector 8 and the pin hole 7 is positioned on the condensing point to constitute a detecting system as a confocal system. Since the pin hole 7 is arranged on the condensing position of the condenser lens 6 which is a conjugate position with the recording layer 5b, reflected light from recording layers 5a, 5c other than the recording layer 5b is not reached to the detector 8. Thereby, only the information on the recording layer 5b is detected. Even if an interval between the recording layers in the information recording medium is short, no detecting error is generated, so that the recording capacity of the information recording medium can be sharply increased.

